Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

CW ###: Introduction to Similarity

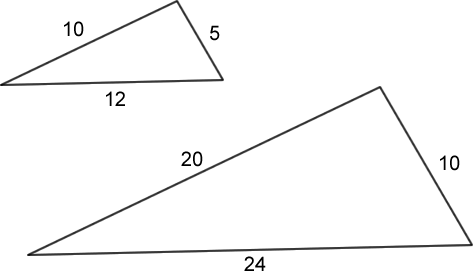
**Honors Geometry**

In your own words, describe similarity.

In your own words, describe congruence.

How is similarity different than congruence?

|  |  |  |
| --- | --- | --- |
| Measure of side (*ΔABC*) | Measure of side (*ΔDEF*) | Ratio |
| *AB =* | *DE =* |  |
| *BC =* | *EF =* |  |
| *CA =* | *FD =* |  |

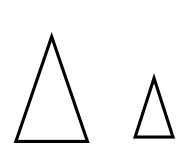
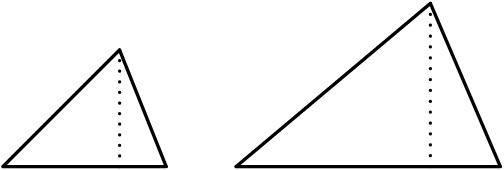
**Copy the figures and tables into your notebook.**

What is the scale factor of triangle ABC to triangle DEF?

What is the scale factor of triangle DEF to triangle ABC?

**Using the given scale factors, determine the missing sides of each of the similar triangles.**

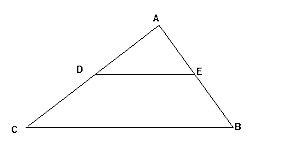
|  |  |
| --- | --- |
| *AB = 3* | *DE=* |
| *BC = 7* | *EF=* |
| *CA = 7* | *FD =* |

1. ****Scale factor is 2:1
2. ****Scale Factor is 1:2

|  |  |
| --- | --- |
| *AB = 3* | *DE=* |
| *BC = 5* | *EF=* |
| *CA = 7* | *FD =* |

|  |  |
| --- | --- |
| *AB = 10* | *DE=* |
| *BC = 4* | *EF=* |
| *CA = 10* | *FD =* |

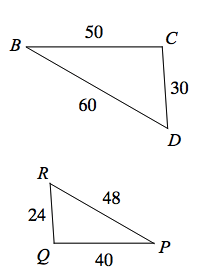
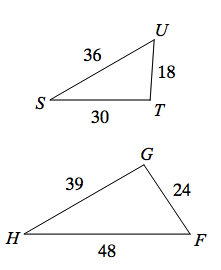
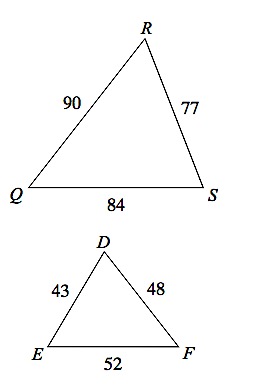
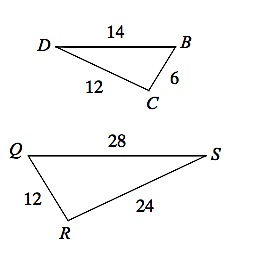
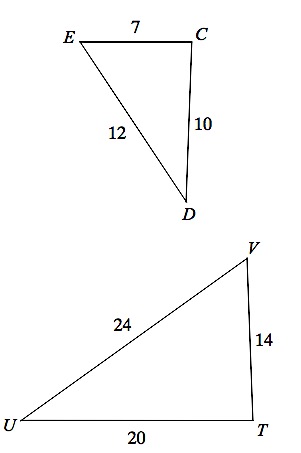
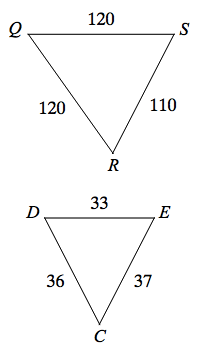
1. Scale factor is 2:1

****

|  |  |
| --- | --- |
| *AE= 2* | *AB =* |
| *ED = 5* | *BC =* |
| *DA = 3* | *CA =* |

1. Scale factor is 1:7

**I know two figures are similar when . . .**

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